

**Department of Computer Science and Engineering
The Chinese University of Hong Kong**

CSCI 3150: Introduction to Operating Systems

Lab Three: C Programming – Parent/Child Process Communication via Pipe

The Exercise for Lab Three Deadline:

23:59:59, 17 February 2022

Total marks: 100

In Lab Three, we have implemented “ls -l | wc -l” by using dup() and pipe(). Based on that, write a program use two pipes to implement “ls -l | grep D | wc -c”.

What to submit:

Only submit **lab_three_exercise.c** file (via Blockboard).

Note:

1. We will run your code on the virtual machine environment – XUbuntu (32bits) via Virtual Box – when grading, so please make sure your program can be compiled and run on it; otherwise, 0 marks will be given.
2. Tutor Kecheng, HUANG is responsible for this lab and you may contact him via email: kchuang21@cse.cuhk.edu.hk.